

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Kindly cancel claims 1 - 10 without prejudice, in favor of new claims 11 - 18.

Claims 1 - 10. (Cancelled)

11. (New) A curable composition comprising a binder bearing at least one ethylenically unsaturated group, and functionalized particles which possess at least one ethylenically unsaturated group and contain radicals of the formula I,



where the particles are prepared by reacting

(a) particles of a metal oxide, metal-silicon mixed oxide, silicon dioxide, colloidal silicon dioxide, organopolysiloxane resin or combination thereof, the particles possessing functionality selected from Me-OH, Si-OH, Me-O-Me, Me-O-Si-, Si-O-Si, Me-OR¹ and Si-OR¹, and having an average diameter of less than 1000 nm,

(b) with organosilanes of the general formula II,



their hydrolysis or condensation products, or mixtures thereof, and

where

(c) and optionally water,

R¹ is hydrogen or a hydrocarbon radical having 1 to 6 carbon atoms, whose carbon chain is optionally interrupted by nonadjacent oxygen, sulfur or NR⁴ groups,

R² is a hydrocarbon radical having 1 to 12 carbon atoms, whose carbon chain is optionally interrupted by nonadjacent oxygen, sulfur or NR⁴ groups,

R³ is hydrogen or a hydrocarbon radical having 1 to 12 carbon atoms, whose carbon chain is optionally interrupted by nonadjacent oxygen, sulfur or NR⁴ groups,
R⁴ is hydrogen or a hydrocarbon radical having 1 to 12 carbon atoms,
A is oxygen, sulfur, =NR⁴ or =N-(D—C),
D is a carbonyl group, or an alkylene, cycloalkylene or arylene radical having 1 to 12 carbon atoms, the carbon chain optionally interrupted by nonadjacent oxygen, sulfur or NR⁴ groups,
C is an ethylenically unsaturated group,
Me is a metal atom, and
n is 0, 1 or 2.

12. (New) The composition of claim 11, wherein the particles are selected from pyrogenic silica, colloidal silica, and silicone resins.

13. (New) The composition of claim 11, wherein the hydrocarbon radical R¹ is a methyl, ethyl or phenyl radical.

14. (New) The composition of claim 11, wherein at least one group (-A-D-C) is a radical OC(O)C(CH₃)=CR³₂, OC(O)CH=CR³₂, NHC(O)C(CH₃)=CR³₂, or NHC(O)CH=CR³₂.

15. (New) The composition of claim 11, wherein the ethylenically unsaturated groups in the binder are capable of free-radical, cationic or anionic polymerization.

16. (New) The composition of claim 11, wherein the ethylenically unsaturated groups in the binder are polymerizable by actinic radiation or thermal treatment.

17. (New) The composition of claim 11, wherein the ethylenically unsaturated groups in the binder are selected from vinyl groups, methacrylate groups, acrylate groups, acrylamide groups, and mixtures thereof.

18. (New) The process for coating a substrate, comprising applying to a surface of said substrate a composition of claim 11, and curing said composition.